

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A luminescent screen comprising particles of luminescent material embedded in an inorganic material, wherein the inorganic material comprises aluminium phosphate, ~~and wherein a diameter of the particles of luminescent material is greater than a diameter of inorganic particles of the aluminium phosphate and silicon oxide.~~

Claims 2-3 (Canceled)

4. (Previously presented) A discharge lamp equipped with the luminescent screen as claimed in claim 1.

5. (Previously presented) The discharge lamp as claimed in

claim 4, wherein the discharge lamp comprises a lamp vessel that is transparent for visible light and the luminescent screen is deposited on part of an inner wall or part of an outer wall of the lamp vessel.

6. (Previously presented) The discharge lamp as claimed in claim 5, wherein the luminescent screen is covered by a top layer.

7. (Previously presented) The discharge lamp as claimed in claim 6, wherein the top layer comprises a compound chosen from the group formed by yttrium oxide and yttrium-strontium-borate.

8. (Previously presented) The discharge lamp as claimed in claim 4, wherein the discharge lamp is a fluorescent lamp.

9. (Currently Amended) The luminescent screen of claim 1, wherein ~~the a~~ diameter of the particles of the luminescent material is greater than ~~the a~~ diameter of the inorganic particles of the aluminium phosphate by at least an order of magnitude of ten times.

10. (Previously presented) The luminescent screen of claim 1, wherein inorganic particles of the aluminium phosphate fill pores between the particles of the luminescent material.

11. (Currently amended) A luminescent screen comprising:  
a first layer comprising a luminescent material having  
luminescent particles; and

a second layer comprising an inorganic material having  
inorganic particles including aluminium phosphate;

wherein the inorganic particles are smaller than the luminescent particles so that the inorganic particles fill pores between the luminescent particles; the second layer directly covering the first layer.

12. (Previously presented) The luminescent screen of claim 11, wherein a diameter of the luminescent particles is greater than a diameter of inorganic particles by at least an order of magnitude of ten times.

13. (Currently Amended) The luminescent screen of claim 11,

wherein the inorganic material further includes ~~at least one of~~  
~~aluminium oxide and silicon oxide.~~

14. (Currently amended) A discharge lamp comprising:

a discharge vessel; and

~~a luminescent screen deposited on part of an inner wall or~~  
~~part of an outer~~ formed on a wall of the discharge vessel;

the luminescent screen comprising:

a first layer comprising luminescent material having  
luminescent particles formed on the wall of the discharge vessel;  
and

a second layer comprising inorganic material having inorganic  
particles including aluminium phosphate formed on the first layer;

~~wherein the inorganic particles are smaller than the~~  
~~luminescent particles so that the inorganic particles fill pores~~  
~~between the luminescent particles~~ the second layer directly covers  
the first layer.

15. (Previously presented) The discharge lamp of claim 14,  
wherein a diameter of the luminescent particles is greater than a

diameter of inorganic particles by at least an order of magnitude of ten times.

16. (Currently amended) The discharge lamp of claim 14,  
wherein the inorganic material further includes ~~at least one of~~  
~~aluminium oxide and silicon oxide.~~

17. (Previously presented) The discharge lamp of claim 14,  
further comprising a top layer formed over the luminescent screen.

18. (Previously presented) The discharge lamp of claim 14,  
wherein the top layer comprises a compound chosen from the group  
formed by yttrium oxide and yttrium-strontium-borate.

19. (Currently amended) A method of forming a luminescent  
screen on a lamp wall comprising the acts of:

mixing luminescent particles with aluminium phosphate and  
silicon oxide particles to form a slurry;  
applying the slurry to the lamp wall; and  
drying the lamp wall, ~~wherein the aluminium phosphate~~

~~particles are smaller than the luminescent particles so that the aluminium phosphate particles fill pores between the luminescent particles.~~

20. (Currently amended) The method of claim 19, wherein ~~the mixing act further includes mixing aluminium oxide particles in the slurry, and wherein the~~ aluminium phosphate includes mono aluminium phosphate.